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is used as the primary fuel at an annual average ratio of less than 2 parts diesel fuel to 100 parts total fuel on an energy equivalent basis are spark ignition engines.

Stationary internal combustion engine means any internal combustion engine, except combustion turbines, that converts heat energy into mechanical work and is not mobile. Stationary ICE differ from mobile ICE in that a stationary internal combustion engine is not a nonroad engine as defined at 40 CFR 1068.30 (excluding paragraph (2)(ii) of that definition), and is not used to propel a motor vehicle, aircraft, or a vehicle used solely for competition. Stationary ICE include reciprocating ICE, rotary ICE, and other ICE, except combustion turbines.

Stationary internal combustion engine test cell/stand means an engine test cell/ stand, as defined in 40 CFR part 63, subpart PPPPP, that tests stationary ICE.

Stoichiometric means the theoretical air-to-fuel ratio required for complete combustion.

Subpart means 40 CFR part 60, subpart JJJJ.

Two-stroke engine means a type of engine which completes the power cycle in single crankshaft revolution by combining the intake and compression operations into one stroke and the power and exhaust operations into a second stroke. This system requires auxiliary scavenging and inherently runs lean of stoichiometric.

Volatile organic compounds means volatile organic compounds as defined in 40 CFR 51.100(s).

Voluntary certification program means an optional engine certification program that manufacturers of stationary SI internal combustion engines with a maximum engine power greater than 19 KW (25 HP) that do not use gasoline and are not rich burn engines that use LPG can choose to participate in to certify their engines to the emission standards in §60.4231(d) or (e), as applicable.

[73 FR 3591, Jan. 18, 2008, as amended at 73 FR 59177, Oct. 8, 2008; 76 FR 37974, June 28, 2011; 78 FR 6698, Jan. 30, 2013]

TABLE 1 TO SUBPART JJJJ OF PART 60—NOX, CO, AND VOC EMISSION STANDARDS FOR STATIONARY NON-EMERGENCY SI ENGINES ≥100 HP (EXCEPT GASOLINE AND RICH BURN LPG), STATIONARY SI LANDFILL/DIGESTER GAS ENGINES, AND STA-TIONARY EMERGENCY ENGINES >25 HP

			Emission s			standards a		
Engine type and fuel	Maximum engine power	Manufacture date	g/HP-hr			ppmvd at 15% O ₂		
	3 1 7		NO _x	СО	VOC d	NO _x	со	VOC d
Non-Emergency SI Natural Gas ^b and Non-Emergency SI Lean Burn LPG ^b .	100≤HP<500	7/1/2008	2.0	4.0	1.0	160	540	86
• •		1/1/2011	1.0	2.0	0.7	82	270	60
Non-Emergency SI Lean Burn Natural Gas and LPG.	500≤HP<1,350	1/1/2008	2.0	4.0	1.0	160	540	86
		7/1/2010	1.0	2.0	0.7	82	270	60
Non-Emergency SI Natural Gas and Non-Emergency SI Lean Burn LPG (except lean burn 500≤HP<1,350).	HP≥500	7/1/2007	2.0	4.0	1.0	160	540	86
, ,	HP≥500	7/1/2010	1.0	2.0	0.7	82	270	60
Landfill/Digester Gas (except lean burn 500≤HP<1,350).	HP<500	7/1/2008	3.0	5.0	1.0	220	610	80
•		1/1/2011	2.0	5.0	1.0	150	610	80
	HP≥500	7/1/2007	3.0	5.0	1.0	220	610	80
		7/1/2010	2.0	5.0	1.0	150	610	80
Landfill/Digester Gas Lean Burn	500≤HP<1,350	1/1/2008	3.0	5.0	1.0	220	610	80
-		7/1/2010	2.0	5.0	1.0	150	610	80
Emergency	25 <hp<130< td=""><td>1/1/2009</td><td>¢10</td><td>387</td><td>N/A</td><td>N/A</td><td>N/A</td><td>N/A</td></hp<130<>	1/1/2009	¢10	387	N/A	N/A	N/A	N/A
	HP≥130		2.0	4.0	1.0	160	540	86

a Owners and operators of stationary non-certified SI engines may choose to comply with the emission standards in units of either g/HP-hr or ppmvd at 15 percent O₂.

b Owners and operators of new or reconstructed non-emergency lean burn SI stationary engines with a site rating of greater than or equal to 250 brake HP located at a major source that are meeting the requirements of 40 CFR part 63, subpart ZZZZ, Table 2a do not have to comply with the CO emission standards of Table 1 of this subpart.

c The emission standards applicable to emergency engines between 25 HP and 130 HP are in terms of NO_X + HC.

Pt. 60, Subpt. JJJJ, Table 2

^dFor purposes of this subpart, when calculating emissions of volatile organic compounds, emissions of formaldehyde should not be included.

[76 FR 37975, June 28, 2011]

Table 2 to Subpart JJJJ of Part 60—Requirements for Performance Tests

As stated in 60.4244, you must comply with the following requirements for performance tests within 10 percent of 100 percent peak (or the highest achievable) load:

For each	Complying with the requirement to	You must	Using	According to the fol- lowing requirements
Stationary SI internal combustion engine demonstrating compliance according to § 60.4244	a. limit the concentration of $NO_{\rm X}$ in the stationary SI internal combustion engine exhaust	i. Select the sampling port location and the number/location of traverse points at the exhaust of the stationary internal combustion engine;.	(1) Method 1 or 1A of 40 CFR part 60, ap- pendix A-1, if meas- uring flow rate.	(a) Alternatively, for NO _X , O ₂ , and moisture measurement, ducts ≤6 inches in d ameter may be sam pled at a single poin located at the duct centroid and ducts >6 and ≤12 inches in diameter may be sampled at 3 traverse points located at 16.7, 50.0, and 83.3% of the measurement line ('3-poin long line'). If the ducis >12 inches in diameter and the sam pling port location meets the two and half-diameter criteric of Section 11.1.1 of Method 1 of 40 CFF part 60, Appendix A the duct may be sampled at '3-point long line'; otherwise, conduct the stratification testing and select sampling points according to Section 8.1.2 of Method 7E of 40 CFR part 60, Appendix A.
		 ii. Determine the O₂ concentration of the stationary internal combustion engine exhaust at the sam- pling port location;. 	(2) Method 3, 3A, or 3Bb of 40 CFR part 60, appendix A-2 or ASTM Method D6522-00 (Re- approved 2005) ac.	(b) Measurements to determine O ₂ con- centration must be made at the same time as the measure ments for NO _X con- centration.
		iii. If necessary, deter- mine the exhaust flowrate of the sta- tionary internal com- bustion engine ex-	(3) Method 2 or 2C of 40 CFR part 60, ap- pendix A-1 or Meth- od 19 of 40 CFR part 60, appendix A-7.	
		haust;. iv. If necessary, measure moisture content of the stationary internal combustion engine exhaust at the sampling port location; and	(4) Method 4 of 40 CFR part 60, appen- dix A-3, Method 320 of 40 CFR part 63, appendix A, or ASTM Method D 6348-03°.	(c) Measurements to determine moisture must be made at the same time as the measurement for NO _X concentration.